

# [Sanguinarium chloride c20h14clno4 structure](https://assignbuster.com/sanguinarium-chloride-c20h14clno4-structure/)

Contents

* Bio Activity:

|  |  |
| --- | --- |
| Molecular Formula | C 20 H 14 ClNO 4 |
| Average mass | 367. 783 Da |
| Density |  |
| Boiling Point |  |
| Flash Point |  |
| Molar Refractivity |  |
| Polarizability |  |
| Surface Tension |  |
| Molar Volume |  |

* Experimental data
* Predicted – ACD/Labs
* Predicted – ChemAxon
* Experimental Physico-chemical Properties

## Experimental Melting Point:

|  |
| --- |
| 281-285 °CIndofine[021845] |
| 285 °CBiosynthQ-100647 |
| 240 °C (Decomposes)LabNetworkLN01295316 |
| 281-285 °CIndofine[021845],[021845] |

## Experimental Solubility:

|  |
| --- |
| 10 mM in DMSOMedChem Expresshttp://www. medchemexpress. com/osthole. html, HY-N0052A |
| Soluble to 10 mM in DMSOTocris Bioscience2302 |

* Miscellaneous

## Safety:

|  |
| --- |
| GHS07BiosynthQ-100647 |
| H302BiosynthQ-100647 |
| P301+P312; P330BiosynthQ-100647 |
| WarningBiosynthQ-100647 |

## Target Organs:

|  |
| --- |
| Egr-1 inhibitor; VEGF inhibitorTargetMolT0129 |

## Chemical Class:

|  |
| --- |
| Ion PumpEU-OpenScreen[S 5890] |

## Bio Activity:

|  |
| --- |
| AngiogenesisTargetMolT0129 |
| Egr-1; VEGFTargetMolT0129 |
| EnzymesTocris Bioscience2302 |
| Inhibitor of protein phosphatase 2C (PP2C)Tocris Bioscience2302 |
| Inhibitor of protein phosphatase 2C (PP2C), selective over PP1, PP2A and PP2B in vitro. Also inhibits mitogen-activated protein kinase phosphatase-1 (MKP-1) (IC50 = 10 ? M). Plant alkaloid that exhibits anti-inflammatory and antioxidant activity. Blocks cell cycle in the G1 phase; inhibits cell growth in human prostate carcinoma cells. Tocris Bioscience2302 |
| Inhibitor of protein phosphatase 2C (PP2C), selective over PP1, PP2A and PP2B in vitro. Also inhibits mitogen-activated protein kinase phosphatase-1 (MKP-1) (IC50 = 10 ? M). Plant alkaloid that exhibits anti-inflammatory and antioxidant activity. Blocks cell cycle in the G1 phase; inhibits cell growth in human prostate carcinoma cells. Tocris Bioscience2302 |
| OthersMedChem ExpressHY-N0052A |
| PhosphatasesTocris Bioscience2302 |
| Protein Ser/Thr PhosphatasesTocris Bioscience2302 |
| Sanguinarine (chloride) is natural product. MedChem Expresshttp://www. medchemexpress. com/osthole. html, HY-N0052A |

Predicted data is generated using the ACD/Labs Percepta Platform – PhysChem Module

No predicted properties have been calculated for this compound.

|  |  |
| --- | --- |
| Density: |  |
| Boiling Point: |  |
| Vapour Pressure: |  |
| Enthalpy of Vaporization: |  |
| Flash Point: |  |
| Index of Refraction: |  |
| Molar Refractivity: |  |
| #H bond acceptors: |  |
| #H bond donors: |  |
| #Freely Rotating Bonds: |  |
| #Rule of 5 Violations: |  |

|  |  |
| --- | --- |
| ACD/LogP: |  |
| ACD/LogD (pH 5. 5): |  |
| ACD/BCF (pH 5. 5): |  |
| ACD/KOC (pH 5. 5): |  |
| ACD/LogD (pH 7. 4): |  |
| ACD/BCF (pH 7. 4): |  |
| ACD/KOC (pH 7. 4): |  |
| Polar Surface Area: |  |
| Polarizability: |  |
| Surface Tension: |  |
| Molar Volume: |  |

Click to predict properties on the Chemicalize site